

MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
LABELING STORM WATER OUTFALLS

C&T:DMG

1 of 2

C&T:APPR:JAR:EMB:03-04-05
REVISED:08-28-06

a. Description. A National Pollutant Discharge Elimination System (NPDES) permit was issued (effective April 1, 2004) by the Michigan Department of Environmental Quality to the Michigan Department of Transportation (MDOT) to discharge storm water to the waters of the state. As a condition of this permit, effective April 1, 2005, all storm water outfalls which discharge directly to the waters of the state shall be permanently labeled to identify MDOT as the owner and operator of the drainage system. The locations requiring labeling will be specified on the plans. All work shall be conducted in accordance with the plans, standard specifications for construction and as specified herein.

b. Materials. All materials shall be as specified in Sections 401 and 706 of the Standard Specifications for Construction and as modified herein.

When utilizing a stainless steel plate, the size of the plate shall be a nominal 5 ¾ inches long x 2 inches wide x ¼ inch thick with a ¼ inch diameter hole on each end for fastening. The plate shall be fastened using two ¼ inch stainless steel or galvanized bolts with nuts and construction adhesive. Self-tapping fasteners of any kind are not permitted. Provide written certification that the adhesive will have a Sag value < 0.10 inch per ASTM D 2202 with minimum shear strength of 240 psi after one week. For steel end sections, the bolts shall be fastened using stainless or galvanized lock nuts and washers. For concrete end sections, the bolts shall be fastened using corrosion resistant expansion anchors. Once the bolts are tightened in place, the hex head of the bolt shall be "rounded" to prevent removal.

c. Construction. Construct end sections and headwalls in accordance with Sections 401 and 706 of the Standard Specifications for Construction and as modified herein.

Permanently label all end sections or other points of storm water discharge with "MDOT" in a conspicuous location which will remain visible after construction. Locate the marking on the interior of flared end sections in approximate alignment with the spring line of the conduit. For precast or cast-in-place concrete headwalls or instances where the conduit protrudes through a concrete or steel wall, locate the marking on the exterior face directly above the pipe, or as directed by the Engineer. See Standard Plan R-85, R-86, R-88 or R-95 Series for specific applications.

The letters "MDOT" shall be physically stamped, welded or inscribed into the end section material or by utilizing a stainless steel plate with the letters acid etched into the surface of the plate. Stenciling utilizing ink, paint or other surface application is not acceptable.

The individual letters shall be legible and sized to 1 ½ inches high x 1 inch wide each. The depth of the letters shall be a minimum of ¼ inch for concrete and ⅛ inch for steel materials. If the letters are placed by welding, the thickness of the weld shall be a minimum of ¼ inch.

For steel end sections, the letters shall be physically stamped creating an indentation in the material. For concrete headwalls, end sections and walls the lettering shall be physically inscribed into the material.

In those cases where the conduit protrudes through a steel sheet pile wall, the letters may be placed on the face of the wall by welding.

d. Measurement and Payment. The completed work as described will be paid for at the contract unit price for the following contract item (pay item):

Contract Item (Pay Item)	Pay Unit
Outfall Label.....	Each

Payment for **Outfall Label** shall include all labor, equipment and materials necessary to complete the work as described.